

198803

SUMMARY OF NPDES EFFLUENT LIMITATIONS AND SELF-MONITORING REQUIREMENTS AT THE ROCKY FLATS PLANT  
AS MODIFIED BY THE FEDERAL FACILITY COMPLIANCE AGREEMENT

Discharge from the Sewage Treatment Plant (STP)

Effluent Characteristics	Discharge Limitations			Monitoring Requirements	
	30-Day Avg. a/	7-Day Avg. b/	Daily Max. d/	Measurement Frequency	Sample Type
*Flow, mgd e/	N/A	N/A	N/A	Continuous	Recorder g/
*CBOD <sub>5</sub> , mg/L	10	N/A	25	2/Week	Composite
*Total Suspended Solids, mg/L	30	45	N/A	2/Week	Composite
*Fecal Coliforms, No./100mL c/	200 c/	400 c/	N/A	2/Week	Grab
*pH, s.u.	N/A	N/A	6.0-9.0	Daily	Grab or Instantaneous
*Total Phosphorus (as P), mg/L	8	N/A	12	2/Week	Composite
*Total Chromium, ug/L	50	N/A	100	Weekly	Composite
*Nitrate (as N), mg/L	10	20	N/A	2/Week	Composite
*Total Residual Chlorine, mg/L	N/A	N/A	N/A	Daily	Grab
*Oil and Grease, Visual	N/A	N/A	10	Daily	Visual Observation
*Whole Effluent Acute Toxicity	N/A	N/A	N/A	Quarterly	Composite
Detection Level					
Total Antimony, ug/L	10	N/A	N/A	Monthly	Composite
Total Arsenic, ug/L	1	N/A	N/A	Monthly	Composite
Total Beryllium, ug/L	0.2	N/A	N/A	Monthly	Composite
Total Cadmium, ug/L	0.1	N/A	N/A	Monthly	Composite
Total Copper, ug/L	1	N/A	N/A	Monthly	Composite
Total Iron, ug/L	30	N/A	N/A	Monthly	Composite
Total Lead, ug/L	1	N/A	N/A	Monthly	Composite
Total Manganese, ug/L	10	N/A	N/A	Monthly	Composite
Total Mercury, ug/L	0.2	N/A	N/A	Monthly	Composite
Total Nickel, ug/L	10	N/A	N/A	Monthly	Composite
Total Silver, ug/L	0.2	N/A	N/A	Monthly	Composite
Total Zinc, ug/L	1	N/A	N/A	Monthly	Composite

The concentration of oil and grease shall not exceed 10 mg/L in and grab sample nor shall there be a visible sheen or floating oil in the discharge. The discharge shall be visually observed and documented daily for the presence of a visible sheen or floating oil.

(Footnotes are at the end of the summary.)

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Discharge from Sewage Treatment Plant (STP) (Continued)

Effluent Characteristics	Discharge Limitations			Monitoring Requirements	
	30-Day Avg. a/	7-Day Avg. b/	Daily Max. d/	Measurement Frequency	Sample Type
Acrolein, ug/L	N/A	N/A	N/A	Monthly	Grab
Acrylonitrile	N/A	N/A	N/A	Monthly	Grab
Benzene, ug/L	N/A	N/A	N/A	Monthly	Grab
Bromoform, ug/L	N/A	N/A	N/A	Monthly	Grab
Carbon Tetrachloride, ug/L	N/A	N/A	N/A	Monthly	Grab
Chlorobenzene, ug/L	N/A	N/A	N/A	Monthly	Grab
Chlorodibromomethane, ug/L	N/A	N/A	N/A	Monthly	Grab
Chloroethane, ug/L	N/A	N/A	N/A	Monthly	Grab
2-Chloroethylvinyl ether, ug/L	N/A	N/A	N/A	Monthly	Grab
Chloroform, ug/L	N/A	N/A	N/A	Monthly	Grab
Dichlorobromomethane, ug/L	N/A	N/A	N/A	Monthly	Grab
1,1-Dichloroethane, ug/L	N/A	N/A	N/A	Monthly	Grab
1,2-Dichloroethane, ug/L	N/A	N/A	N/A	Monthly	Grab
1,1-dichloroethylene, ug/L	N/A	N/A	N/A	Monthly	Grab
1,2-Dichloropropane, ug/L	N/A	N/A	N/A	Monthly	Grab
1,3-dichloropropylene, ug/L	N/A	N/A	N/A	Monthly	Grab
Ethylbenzene, ug/L	N/A	N/A	N/A	Monthly	Grab
Methyl bromide, ug/L	N/A	N/A	N/A	Monthly	Grab
Methyl chloride, ug/L	N/A	N/A	N/A	Monthly	Grab
Methylene chloride, ug/L	N/A	N/A	N/A	Monthly	Grab
1,1,2,2-Tetrachloroethane, ug/L	N/A	N/A	N/A	Monthly	Grab
Tetrachloroethylene, ug/L	N/A	N/A	N/A	Monthly	Grab
Toluene, ug/L	N/A	N/A	N/A	Monthly	Grab
1,2-Trans-dichloroethylene, ug/L	N/A	N/A	N/A	Monthly	Grab
1,1,1-Trichloroethane, ug/L	N/A	N/A	N/A	Monthly	Grab
1,1,2-Trichloroethane, ug/L	N/A	N/A	N/A	Monthly	Grab
Trichloroethylene, ug/L	N/A	N/A	N/A	Monthly	Grab
Vinyl chloride, ug/L	N/A	N/A	N/A	Monthly	Grab

(Footnotes are at the end of the summary.)

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Discharge from Pond B-3 (Outfall 001)

<u>Effluent Characteristics</u>	<u>Discharge Limitations</u>			<u>Monitoring Requirements</u>	
	30-Day Avg. a/	7-Day Avg. b/	Daily Max. d/	Measurement Frequency	Sample Type
*Total Residual Chlorine, mg/L	N/A	N/A	0.5	Daily	Grab
*Nitrates (as N), mg/L	10	20	N/A	Weekly	Grab
*CBOD <sub>5</sub> , mg/L	N/A	N/A	N/A	Weekly	Grab
*BOD <sub>5</sub> , mg/L	N/A	N/A	N/A	Weekly	Grab
*Total Suspended Solids, mg/L	N/A	N/A	N/A	Weekly	Grab

Discharge from Pond B-5 (006) or transfer of water from Pond B-5 to Pond A-4

<u>Effluent Characteristics</u>	<u>Discharge Limitations</u>			<u>Monitoring Requirements</u>	
	30-Day Avg. a/	7-Day Avg. b/	Daily Max. d/	Measurement Frequency	Sample Type
*Total Chromium, ug/L f/	N/A	N/A	50	Monthly	Grab
*Whole Effluent Acute Toxicity g/	N/A	N/A	N/A	Quarterly	Grab g/
Nonvolatile Suspended Solids	See requirements under Part I.A.7.b.&c. on page 13 of the permit. h/				
Flow	See requirements under Part I.A.7.a.&c. on page 13 of the permit. i/				

Discharge from Pond A-4 (005)

<u>Effluent Characteristics</u>	<u>Discharge Limitations</u>			<u>Monitoring Requirements</u>	
	30-Day Avg. a/	7-Day Avg. b/	Daily Max. d/	Measurement Frequency	Sample Type
*Total Chromium, ug/L f/	N/A	N/A	50	Monthly	Grab
*Whole Effluent Acute Toxicity g/	N/A	N/A	N/A	Quarterly	Grab g/
Nonvolatile Suspended Solids	See requirements under Part I.A.7.b.&c. on page 13 of the permit. h/				
Flow	See requirements under Part I.A.7.a.&c. on page 13 of the permit. i/				

(Footnotes are at the end of the summary.)

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Discharge from Pond C-2 (007) or transfer of water from Pond C-2 to Pond B-5

<u>Effluent Characteristics</u>	<u>Discharge Limitations</u>			<u>Monitoring Requirements</u>	
	30-Day Avg. a/	7-Day Avg. b/	Daily Max. d/	Measurement Frequency	Sample Type
*Total Chromium, ug/L f/	N/A	N/A	50	Monthly	Grab
*Whole Effluent Acute Toxicity g/	N/A	N/A	N/A	Quarterly	Grab g/
Nonvolatile Suspended Solids	See requirements under Part I.A.7.b.&c. on page 13 of the permit. h/				
Flow	See requirements under Part I.A.7.a.&c. on page 13 of the permit. i/				

Discharge from Pond A-3 (002): No change from requirements prior to FFCA - see page 8 of the permit.

Outfall 003: No change from requirements prior to FFCA - see page 9 of the permit.

Outfall 004: No change from requirements prior to FFCA - see page 10 of the permit.

Footnotes:

- \* Monitoring results for items marked with an asterisk (\*) are to be reported on discharge monitoring report (DMR) forms.
- a/ This limitation shall be determined by the arithmetic mean of a minimum of three (3) consecutive samples taken on separate weeks in a 30-day period (minimum total of three (3) samples); not applicable to fecal coliforms - see footnote c/.
- b/ This limitation shall be determined by the arithmetic mean of a minimum of three (3) consecutive samples taken on separate days in a 7-day period (minimum total of three (3) samples); not applicable to fecal coliforms - see footnote c/.
- c/ averages for fecal coliforms shall be determined by the geometric mean of a minimum of three (3) consecutive grab samples taken during separate weeks in a 30-day period for the 30-day average, and during separate days in a 7-day period for the 7-day average (minimum total of three (3) samples).

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Footnotes (continued)

- d/ Any single analysis and/or measurement beyond this limitation shall be considered a violation of the conditions of this permit.
- e/ Report average flow for reporting period and maximum 24-hour flow that occurred during reporting period.
- f/ If the discharge is intermittent, either a pre-discharge sample or a sample of the discharge may be used.
- g/ Applies only to discharges from the ponds and not to the transfer of water from one pond to another pond. If the discharge is intermittent, the required quarterly monitoring may consist of a pre-discharge sample or a sample of the actual discharge. For pre-discharge samples, a composite sample shall be formed from the appropriate grab samples collected from the pond in accordance with the pre-discharge sampling plan. Samples are not required if there is not going to be a discharge during the quarter unless otherwise notified by the permitting authority.
- h/ The monitoring for nonvolatile suspended solids is only required for discharges through the normal outlet works from the ponds. It is not required for water discharged from the ponds by means of pumping or water transferred from one pond to another pond. Records shall be kept of the volume of water discharged from each pond and the volume of water transferred from one pond to another pond.
- i/ Only flow discharged from the pond must be reported. The volume of water transferred from one pond to another pond does not have to be reported.